

PhD Symposium Program

PhD Session 1

August 30 - 4:00 AM New York | 9:00 AM Lisbon | 10:00 AM Brussels | 4:00 PM Beijing

Memory Efficient Deep Neural Network Training

» [Alena Shilova](#)

Parallelization and auto-scheduling of data access queries in ML workloads

» [Pawel Bratek](#), Lukasz Szustak and Jaroslaw Zola

Communication overlapping Pipelined Conjugate Gradients for Distributed Memory Systems and Heterogeneous Architectures

» [Manasi Tiwari](#) and Sathish Vadhiyar

Scalable hybrid parallel ILU preconditioner to solve sparse linear systems

» [Raju Ram](#), Daniel Grünewald and Nicolas R Gauger

Low-Overhead Reuse Distance Profiling Tool for Multicore

» [Muhammad Aditya Sasongko](#), Didem Unat and Milind Chabbi

PhD Session 2

August 30 - 5:50 AM New York | 10:50 AM Lisbon | 11:50 AM Brussels | 5:50 PM Beijing

Interferences between Communications and Computations in Distributed HPC Systems

» [Philippe Swartvagher](#)

A Low Overhead Tasking Model for OpenMP (abstract)

» [Chenle Yu](#), Sara Royuela and Eduardo Quiñones

Application-Based Fault Tolerance for Numerical Linear Algebra at Large Scale

» [Daniel Alberto Torres Gonzalez](#), Camille Coti and Laure Petrucci

Collaborative, distributed, scalable and low-cost plat-form based on microservices, containers, mobile devices and Cloud services to solve compute-intensive tasks

» [David Marcelo Petrocelli](#), Armando De Giusti and Marcelo Naiouf

Model-based Loop Perforation

» [Daniel Maier](#)

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